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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/613,272	07/03/2003	Mark J. Mamula	102321-201	4375	
27267 75	90 06/14/2006		EXAM	EXAMINER	
WIGGIN AND DANA LLP			CANELLA, KAREN A		
ATTENTION: PATENT DOCKETING ONE CENTURY TOWER, P.O. BOX 1832			ART UNIT	PAPER NUMBER	
	CT 06508-1832		1643		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)				
	10/613,272	MAMULA, MARK J.			
Office Action Summary	Examiner	Art Unit			
	Karen A. Canella	1643			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	L. sely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-29 are subject to restriction and/or explication Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 11)	election requirement. r. epted or b) objected to by the ledgrawing(s) be held in abeyance. See lon is required if the drawing(s) is objected to be ledgrawing(s) is objected to led	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Art Unit: 1643

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DETAILED ACTION

Claims 1-29 are pending.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-28, drawn to a method of enhancing the immune response of a patient relative to the normal immune response comprising administering cells comprising isoaspartic acid containing tumor antigens, isoaspartic acid containing bacterial proteins or isoaspartic acid containing viral proteins or, an isolated isoaspartic tumor antigen, an isolated isoaspartic acid containing bacterial protein or an isolated isoaspartic acid containing viral protein, and vaccines comprising an isoaspartic tumor antigen, an isolated isoaspartic acid containing bacterial protein or an isolated isoaspartic acid containing viral protein, classified in class 424, subclasses 93.4, 93.6, 93.7, 204.1, 234.1 and 277.1.
- II. Claim 29, drawn to an antibody which binds to a protein or fragment thereof, said protein or fragment thereof comprising an isoaspartic acid residue and selected from the group consisting of tumor antigens, bacterial proteins, viral proteins and combinations thereof, classified in class 530, subclasses 387.1 and 389.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions of the products of Group I and II are structurally and functionally different products which are made by different methods and have different uses. Group I vaccines comprise isoaspartic acid modified proteins. Group II is drawn to antibodies which bind to said proteins. The examination of all groups would require different searches in the U.S. Patent Shoes and the scientific literature and would require the consideration of different patentability issues.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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This application contains claims directed to the following patentably distinct species: a) cells or isolated proteins comprising tumor antigens containing an isoaspartic amino acid residue, b) cells or isolated proteins comprising bacterial proteins containing an isoaspartic amino acid residue and c) cells or isolated proteins comprising viral proteins containing an isoaspartic amino acid residue. The species are independent or distinct because a search for a particular category of modified protein, such as a tumor antigen containing an isoaspartic amino acid residues would not be co-extensive with a search for a bacterial or viral protein containing an isoaspartic amino acid residue. Thus the categories of proteins are mutually exclusive. A search for all three categories would be undue burden because completely separate searches would be required in the non-patent literature and the U.S. patent shoes.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species (a, b or c) for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-3, 10-13, 17-21 and 25-29 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen A. Canella whose telephone number is (571)272-0828. The examiner can normally be reached on 10-6:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on (571)272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Karen A. Canella, Ph.D.

6/8/2006

KAREN A. CANELLA PH.D PRIMARY EXAMINER